



Missouri Court Automation **Hardware and Software Standards** **November 2009**

INTRODUCTION

The attached table is a compilation of the court automation infrastructure standards adopted by the Missouri Court Automation Committee. Note that the standards specify minimum configurations and also the configuration most commonly purchased now. These standards are for new purchases and do not impact current equipment and software, which works successfully with Court Automation solutions.

Because of Justice Information System (JIS) Case Management System requirements, the standards have been expanded to include more specific language relating particularly to server and printer specifications.

- The Applications Server provided for each court is reserved for JIS and other system applications. It is configured by technical staff for optimal configuration. No modifications to the server are allowed without specific approval, in writing, by the Director of Information Technology.
- Print requirements for JIS dictate the use of networked printers. Printers shared from workstations and local printers are not acceptable for JIS.

Software versions have generally been removed from the descriptions with the current released version of software accepted as standard. The significant exception to this is that the network operating system for the Database Server must be Microsoft Windows Server 2003 Enterprise, Service Pack 2. This version and service pack level is routinely installed on these servers and may not be changed. Please note that when specific versions are required, the version is provided.

For courts not purchasing from the competitively bid state contracts, specifications for court automation workstations are attached. These specifications must be used to guarantee compliance and compatibility.

SERVERS, WORKSTATIONS, PRINTERS AND SCANNERS	
Desktop Personal Computer (Minimum Configuration)	For new computers: Intel based processor (MHz based on current availability) 4 GB RAM 80 GB hard drive 19" SVGA color monitor LCD (22" and Splitview software for split screen) 3COM or Integrated Intel 10/100/1000 or Integrated Broadcom 10/100/1000 Ethernet card DVD-RW Sound Card USB Floppy optional External speakers optional
Laptop Personal Computer (Minimum Configuration)	For new computers: Intel based processor (MHz based on current availability) 4 GB RAM 120 GB hard drive 15" or greater TFT XGA color screen 3COM 574 or Integrated Intel 10/100/1000 or Integrated Broadcom 10/100/1000 Ethernet card DVD-RW Modem (minimum speed of 56 kbps support for the Hayes AT command set)(recommended but optional) Built in wireless with wired/wireless auto-switching capabilities Floppy optional
Digital Sound Recording Workstation (Minimum Configuration)	For new computers: Must be Workstation Class Computer Intel Core Duo or Core 2 Duo 4 GB RAM 3 – 120 GB SAS 1.5 Gb/s 15Krpm SAS RAID Controller 3COM/Integrated Broadcom 10/100/1000 Ethernet card 2- DVD-RW 128MB or above Video card with dual head capability Hardware RAID configuration – RAID 1 (Mirrored Array) USB standard keyboard USB Optical Scroll Mouse Sound Blaster X-FI XtremeMusic Audio Card Monitor – Min. 19" (22" and Splitview software for split screen) UPS 800 External Speakers 5 Year Warranty
Servers – LAN, Lotus Notes, Forms (Minimum Configuration)	HP/Compaq Proliant Intel 2 GB RAM 2 – 72GB hard drives Hot Swappable drive RAID 1 recommended

SERVERS, WORKSTATIONS AND PRINTERS cont.	
Servers - Application (Minimum Configuration)	HP/Compaq Proliant Intel dual processor 3.8 GHZ 3GB Ram RAID-5 redundancy/RAID 0+1 Hot Swappable drive
Servers – Database (Minimum Configuration)	HP/Compaq Proliant Intel dual processor 3.8 GHZ 4 GB RAM 5- 36 GB hard drives RAID-5 redundancy/RAID 0+1 Hot Swappable drive
Printers Most Common Now: HP LaserJet P2055DN (black) less than 3000 copies per month HP LaserJet P4014DN (black) more than 5000 copies per month HP LaserJet P3525 (color printer) between 1500 to 5000 copies per month HP LaserJet P2025DN (color printer) less than 2000 copies per month Printable area must be at least a quarter inch each side of the page and support postscript printing.	Hewlett Packard LaserJet Series For ALL Courts, printers must support PCL5, PCL6 and Postscript or HP Universal Print Driver v. 4.7 or higher HP Laser Jet with MICR modules (may need to be customized) for JMS only For courts which elect to print magnetic coding on checks- Must contact OSCA technical staff before purchasing
Check Printers Model: MICRST9530 (available only through Source Technology)	For JIS only (MICR printer is not supported by OSCA)
Hardware/Software Component	Standard
Multifunction Products With printer, copier, FAX, scanner capabilities	Acceptable: HPM4345 HP LaserJet M3035 MFP
Bar Code Printer (Label Printer)	Acceptable: Zebra TLP 2844-Z – 8 MB SDRAM Note: must use Zebranet Print Server II
Print Servers	Hewlett Packard Jet Direct Required for network printers without an internal print server.
Bar Code Scanner	Programmable Code Laser Scanner-Wasp or Pin Point Handheld laser scanner PSCQS6000 USB
LOCAL AREA NETWORK (LAN) PERIPHERALS	
Uninterruptible Power Supply	APC Smart UPS
Modems	Minimum speed of 56kbps support for the Hayes AT command set (recommended but optional)
Optical Storage	DVD-RW
Networked CD-ROM Drive Option	Standalone CD-ROM Miniserver
USB Jump Drives	SanDisk Cruzer or Kingston Data Traveler Elite

LOCAL AREA NETWORK AND WORKSTATION SOFTWARE	
Network Operating System	Windows 2008 R2 Domain Controllers and File Servers Windows Server 2003 Enterprise Edition , w/SP2 for Application Servers/Database Servers
Desktop Operating System	Windows XP SP3
Office Automation (Word processing, spreadsheet, presentation, and db)	Microsoft Office XP, SP3
Help Desk	Numara Footprints
Project Management Software	Microsoft Project
Sound Recording	FTR – for version information please contact OSCA-IT
PDF Document Generation	Adobe Professional
WEB Browser	Microsoft Internet Explorer
Groupware/Electronic Mail	Lotus Notes
Document Viewer	Adobe Acrobat
Anti-Virus Software	Panda Anti Virus, Symantec Appliance
Workflow/Graphics	Microsoft Visio
Report Generator	Cognos ReportNet, Crystal Reports
Remote Communications	SCCM
File Compression	WinZip
Network Backup Software	HP Data Protector
Network Management Software	System Center Configuration Manager (SCCM) CiscoWorks, MS Windows Software Update Services (WSUS), MRTG, Solarwinds
Sanitization Software	Killdisk
Media Player	Windows Media Player
Defragmentation Software	PerfectDisk
WAN/LAN COMPONENTS	
Switches	Cisco, (for temporary use only Linksys, unmanaged switches are acceptable)
Wireless Bridge	Cisco/Alvarion
Routers	Cisco
LAN Wiring	Category 5E UTP (minimum) Wiring System Category 6 Recommended
LAN Topology	10/100/1000 Base T or 10/100 Base T
Network Protocol	TCP/IP
Remote Access (Dialup)/Security	Cisco AS5*** with ACS and RSA Secure ID tokens (***) Use current Cisco AS model)
Remote Access VPN	Cisco Pix Firewall Cisco ASA
VPN Client	Cisco VPN Client – with ACS-RSA Secure ID tokens
Wireless Encryption	Cisco Wireless LAN Controller

VIDEO CONFERENCING	
<p>Model will depend on where and the unit is being used. The HDX7001 is designed for a room. Desktop models are also available.</p>	<p>Minimum: High definition Frame rate 30 FPS Standards: H.323, H.239, H.261, H.263, H.264 Camera zoom: 12X Network: TCP/IP based conferencing with Ethernet (minimum 10/100) AES Encryption Maximum WAN bandwidth 384 Kb</p> <p>Picture in Picture (PIP)</p>
SUPPORTABLE DEVICES	
<p>Document Scanners</p> <p>Tested Models: HP 8420 and HP 9120</p>	<p>Resolution: 600 dpi Flatbed/Automatic Document Feeder (ADF) 100 page ADF with duplex capability Connectivity: USB Driver: TWAIN Duty cycle: 1500 pages per day Output: PDF, TIFF, JPEG</p>
<p>PDA/Phone</p> <p>Tested Models: HTC Fuze, HP iPaq 910, HTC Touch Pro</p>	<p>Windows Mobile 5.0 Professional or greater Touch Screen AES encryption</p> <p>Note: iPhone and Blackberry do not meet infrastructure standards and are not supported</p>
<p>PDA Only</p> <p>Tested Models: HP iPaq hx2790, Palm Tungsten E2</p>	<p>Windows Mobile 5.0 or greater or Palm OS 5.0 or greater Touch Screen Cradle sync only via EasySync</p>

**For Additional information,
contact OSCA at
(573) 522-5577
888-541-4894
or via Lotus Notes at
OSCA Help Desk**

Statewide Court Automation Minimum Personal Computer Requirements for Courts Conducting Competitive Bid Process

The following are the minimum requirements for personal computers for use with statewide court automation. If a court is not purchasing computers from the prime vendor contract, the following must be specified:

- Intel based processor
- Intel motherboard
- 4 GB RAM
- 3 Com 905C PCI, Integrated Intel 10/100/1000 or Integrated Broadcom 10/100/1000 NIC
- DVD-RW
- Integrated video or 128 MB PCIe x16 Video Card
- 19" SVGA Color Monitor (LCD), .28dot, 1024x768 resolution @ 75hz (22" and Splitview software for split screen)
- 80 GB Ultra ATA IDE hard drive
- 104 key keyboard
- Microsoft or Logitech Mouse
- DMI 2.0 compliant desktop management software
- Small Form Factor Chasis or Mini Tower Chasis
- Windows XP Professional SP3
- Microsoft Office XP, SP3
- Panda anti-virus software
- 4 year warranty w/1 year on-site
- 24/7 toll free telephone support
- All components must be on the Windows Hardware Compatibility list located at www.microsoft.com.

If a computer does not meet these minimum specifications, the Office of State Courts Administrator will not be able to ensure that court automation software will work correctly or that OSCA support will be available. Peripheral devices that have not been approved by OSCA such as wireless mice and/or keyboards, headsets, PDAs etc, will be removed if found to be contributing to the malfunctioning of a workstation or laptop.